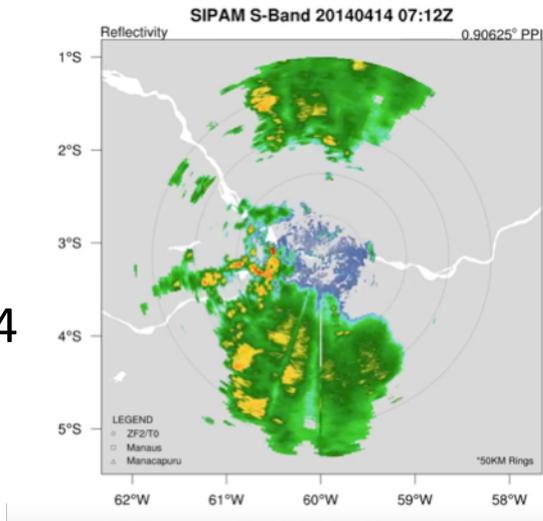


SIPAM S-band scanning precipitation radar

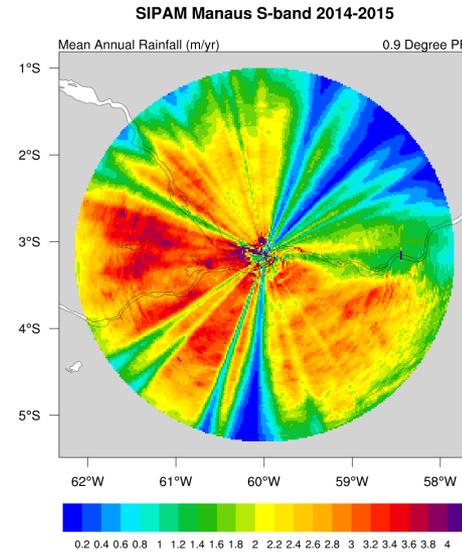
- Two years (2014-2015) of continuous (12-min volume scans) 3-D gridded reflectivity and radial velocity from the Brazilian Army's S-band, Doppler radar are available on the ARM website
- We have recently reprocessed a new version due to TRMM/GPM calibration changes (+1 dB or 10-15% rain increase)
- Loops and other information on data set at <http://atmo.tamu.edu/goamazon-sband-radar>

Example SIPAM products

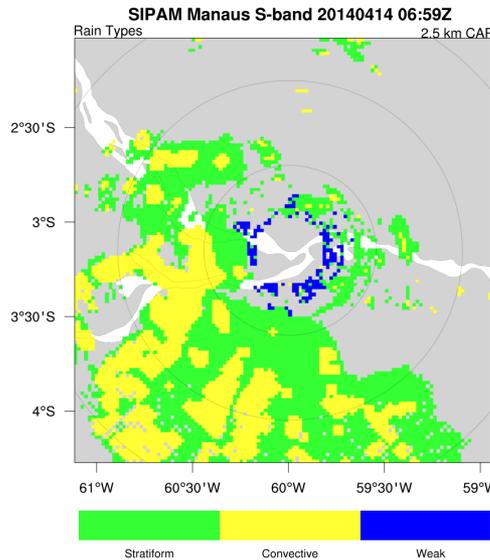
240 km
0.9 deg PPI
14 April 2014



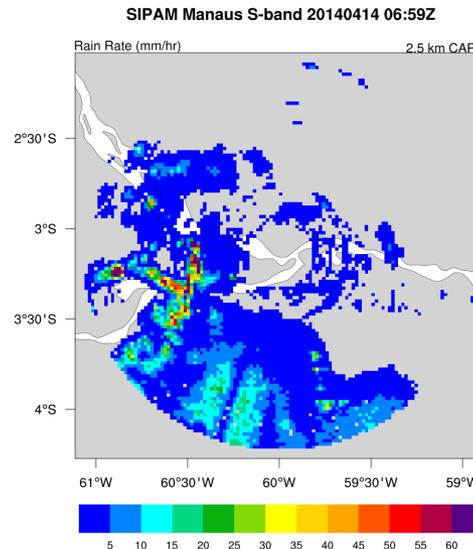
240 km
0.9 deg PPI
2014-15 rain map



150 km
2.5 km CAPPI
Rain type



150 km
2.5 km CAPPI
Rain rates



Next steps/thoughts

- Still need to remove some clutter/AP from low-level SIPAM scans, dealias radial velocities, refine Z-R relation from full two-year disdrometer data set, and tune convective-stratiform algorithm
- Use the SIPAM reflectivity and radial velocity fields in conjunction with surface chemistry to highlight transport in downdrafts and cold pools and rain out impacts, link MCS tracking and echo top height evolution to environmental obs (soundings, var anal, GPS), collocated data stream over G1 tracks?, model links, ...